

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	337	coolant near5 pulse	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 14:18
L11	20	coolant near5 pulse with (benefit\$4 or advanc\$3 or improv\$5 or advantage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 14:19
L12	6	coolant near5 pulse and (heat adj2 (source or generator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 14:20
L13	20	coolant near5 pulse with pump\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 14:22
L14	56	coolant with pulse with pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 14:55
L15	37	14 not 13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 14:55
L16	45	coolant with (refrigerant) same (porous or pore)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 15:51

L17	23	(refrigerant) with (porous or pore) with spray\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 16:44
L18	37	(refrigerant) with (heat adj sink or heatsink or cooling) and (porous or pore) with spray\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 16:58
L19	2687	(372/34,36).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 17:00
L20	49	L19 and refrigerant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 17:00
L21	1	L19 and (liquid adj2 nitrogen or carbon adj dioxide or "CO.sub.2" or HFC or ahydrofluorocarbon or tetrafluoroethane or heptafluoropropane or refrigerant) same (pore or porous)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:13
L22	15	L19 and (liquid adj2 nitrogen or carbon adj dioxide or "CO.sub.2" or HFC or ahydrofluorocarbon or tetrafluoroethane or heptafluoropropane or refrigerant) and (pore or porous)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:14
L23	61	(liquid adj2 nitrogen or carbon adj dioxide or "CO.sub.2" or HFC or ahydrofluorocarbon or tetrafluoroethane or heptafluoropropane or refrigerant) same (pore or porous) same (heatsink or heat adj sink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:16

L24	61	(liquid adj2 nitrogen or carbon adj dioxide or "CO. sub.2" or HFC or hydrofluorocarbon or tetrafluoroethane or heptafluoropropane or refrigerant) same (pore or porous) same (heatsink or heat adj sink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:16
L25	1247	(liquid adj2 nitrogen or carbon adj dioxide or "CO. sub.2" or HFC or hydrofluorocarbon or tetrafluoroethane or heptafluoropropane or refrigerant) with (heat adj sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:21
L26	148	(liquid adj2 nitrogen or carbon adj dioxide or "CO. sub.2" or HFC or hydrofluorocarbon or tetrafluoroethane or heptafluoropropane or refrigerant) with (heat adj sink or heatsink) and spray \$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:30
L27	70	porous adj2 (heat adj sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:52
L28	685	(diamond or granite) near3 (heat adj sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:56
L29	51	(diamond or granite) near3 (heat adj sink or heatsink) and (pore or porous)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 18:56
L30	0	"20020037412" and (porous or porosity) same (centimeter or cm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:24

L31	2	"20020037412" and (porous or porosity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:24
L32	30	(diamond or granite) near3 (heat adj sink or heatsink) and porosity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:43
L33	0	(diamond or granite) near3 (heat adj sink or heatsink) and porosity with (cm or centimeter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:44
L34	1	(diamond or granite) near3 (heat adj sink or heatsink) and pore adj2 diameter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:46
L35	33	(diamond or granite or sintered adj2 metal) near3 (heat adj sink or heatsink) and porosity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:47
L36	40	(diamond or granite or sintered adj2 metal) near3 (heat adj sink or heatsink or heat adj spreader) and porosity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:48
L37	1	solid adj2 foam with (heat adj sink or heatsink or cooling or heat adj2 spreader) and porosity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:50
L38	52	solid adj2 foam with (heat adj sink or heatsink or cooling or heat adj2 spreader)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:50

L39	0	l19 and solid adj2 foam	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:55
L40	18	l19 and foam	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 19:55
L41	526	solid adj2 foam same (heat)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 20:56
L42	67	solid adj2 foam near3 (heat)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 20:56
L43	13	(solid or metal) adj2 foam near3 (heat adj2 spreader or sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 20:58
L44	29	(solid or metal) adj2 foam near6 (heat adj2 spreader or sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:00
L45	16	44 not 43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:00
L46	2	"20020037412" and copper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:10

L47	1	"20020037412" and thermal adj2 conductivity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:12
L48	2	"6354370".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:24
L49	3	"20040019452"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:44
L50	20	((("5,046,840") or ("3,952,797") or ("6,085,831") or ("5,386,143") or ("3,899,976") or ("6,397,618") or ("6,196,307") or ("6,397,450") or ("20020172007")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/25 21:51
S1	2	"US 20060214177"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2008/03/20 19:01
S3	9919	LED with cooling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/20 19:01
S4	1229	LED with coolant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/20 19:02
S5	5	((("3989095") or ("6354370")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/20 19:30

S6	26	("2466769"   "2508988"   "2787443"   "3932029"   "4095644"   "4141224"   "4283686"   "4338577"   "4431269"   "4627244"   "4883115"   "4897762"   "5249358"   "5263536"   "5412536"   "5453641"   "5476137"   "5777384"   "5907473"   "5941083"   "5960857"   "6108201"   "6205799").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:32
S7	476	porous and spray\$3 with cool\$3 and (laser adj2 diode or LED)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:32
S8	42	porous same spray\$3 with cool\$3 same (laser adj2 diode or LED)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:33
S9	20	(porous or pore) with (heatsink or heat adj sink or heat adj spreading) same coolant	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:43
S10	242	(porous or pore) same (heatsink or heat adj sink or heat adj spreading) same vapor\$7	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:57
S11	282	(porous or pore or foam) same (heatsink or heat adj sink or heat adj spreading) same vapor\$7	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:59
S12	23	(porous or pore or foam) same (heatsink or heat adj sink or heat adj spreading) same vapor\$7 and (laser adj diode or light adj2 emit \$3 or LED or optoelectronic)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 19:59
S13	1	"6984888".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 20:09
S14	38	("20020023733"   "3574580"   "3678995"   "3828848"   "3872496"   "3912500"   "3913280"   "3949263"   "4231195"   "4576224"   "4649992"   "4948388"   "5070936"   "5096465"   "5120495"   "5130771"   "5382314"   "5614320"   "5642779"   "5696665"   "5719441"   "5783316"   "5786075"   "5812570"   "5895972"   "6031285"   "6167948"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/20 20:10

		"6238454"   "6264882"   "6335863"   "6337513"   "6361857"   "6390181"   "6448642"   "6517221"   "6534792"   "6538892"). PN.				
S15	8	(porous or pore) with (heat adj sink or heatsink) same nitrogen	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/21 14:26
S16	29	(porous or pore) same (heat adj sink or heatsink) same nitrogen	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/21 14:27
S17	21	S16 not S15	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/21 14:27
S18	10	(porous or pore) near4 (heat adj sink or heatsink) same coolant	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/21 15:13
S19	2	("3989095").URPN.	USPAT	OR	OFF	2008/03/21 15:40
S20	2686	(372/34,36).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 16:31
S21	3	S20 and (porous or pore) same coolant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 16:31
S22	2	S20 and (porous or pore) with (heat adj sink or heatsink) and coolant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 16:37
S23	0	S20 and (porous or pore) with coolant with vapor\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 16:54
S24	9	(porous or pore) with coolant with vapor\$6 same (heat adj sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 16:54



S25	16	(porous or pore) with coolant with vapor\$6 and (heat adj sink or heatsink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 17:31
S26	11	(porous or pore) with (heat adj sink or heatsink) and coolant with vapor\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 17:32
S27	7	S26 not S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 17:33
S28	0	solid adj foam with heat adj sink	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/21 19:24
S29	31	(porous or pore) same (heat adj sink or heatsink) same spray\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/22 02:40
S30	2686	(372/34,36).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 13:10
S31	10	S30 and (liquid or fluid coolant) with (porous or pore)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 13:10
S32	5	S30 and (liquid or fluid coolant) same vapor\$5 same (porous or pore)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 13:11
S33	84	S30 and (liquid or fluid coolant) with (vapor\$5 or evapor\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 13:17

S34	78	S33 not S32 not S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 13:17
S35	207	("0596062"   "20010016985"   "20010024820"   "20010045270"   "20010046703"   "20020075645"   "20020096312"   "20020121105"   "20020134543"   "20030062149"   "20030121274"   "20030213580"   "20040040695"   "20040052049"   "20040089008"   "20040125561"   "20040160741"   "20040188069"   "2039593"   "2273505"   "3361195"   "3771219"   "3817321"   "3948316"   "4109707"   "4211208"   "4312012"   "4450472"   "4467861"   "4485429"   "4516632"   "4540115"   "4561040"   "4567505"   "4573067"   "4574876"   "4644385"   "4758926"   "4866570"   "4868712"   "4893174"   "4894709"   "4896719"   "4903761"   "4908112"   "4938280"   "5009760"   "5016090"   "5016138"   "5043797"   "5057908"   "5070040"   "5083194"   "5088005"   "5099311"   "5099910"   "5125451"   "5131233"   "5161089"   "5179500"   "5203401"   "5218515"   "5228502"   "5230564"   "5232047"   "5239200"   "5239443"   "5263251"   "5265670"   "5269372"   "5274920"   "5275237"   "5281026"   "5308429"   "5309319"   "5310440"   "5316077"   "5317805"   "5325265"   "5346000"   "5380956"   "5383340"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 15:25

"5386143"	"5388635"
"5421943"	"5427174"
"5436793"	"5459099"
"5490117"	"5508234"
"5514832"	"5514906"
"5544696"	"5548605"
"5575929"	"5585069"
"5641400"	"5658831"
"5675473"	"5692558"
"5696405"	"5703536"
"5704416"	"5727618"
"5740013"	"5763951"
"5768104"	"5774779"
"5800690"	"5801442"
"5839290"	"5921087"
"5945217"	"5978220"
"5993750"	"5997713"
"5998240"	"6007309"
"6019165").PN. OR	
("6023934"   "6034872"	
"6039114"   "6054034"	
"6068752"   "6090251"	
"6096656"   "6100541"	
"6101715"   "6119729"	
"6126723"   "6129145"	
"6129260"   "6131650"	
"6140860"   "6146103"	
"6159353"   "6167948"	
"6174675"   "6176962"	
"6182742"   "6186660"	
"6206022"   "6210986"	
"6216343"   "6221226"	
"6234240"   "6238538"	
"6253832"   "6253835"	
"6257320"   "6277257"	
"6301109"   "6313992"	
"6317326"   "6321791"	
"6322753"   "6324058"	
"6330907"   "6336497"	
"6337794"   "6351384"	
"6366462"   "6366467"	
"6367544"   "6388317"	
"6396706"   "6397932"	
"6400012"   "6406605"	
"6415860"   "6417060"	
"6424531"   "6431260"	
"6437981"   "6438984"	
"6443222"   "6444461"	
"6457515"   "6459581"	
"6466442"   "6477045"	
"6492200"   "6519151"	
"6533029"   "6536516"	
"6537437"   "6543521"	
"6553253"   "6578626"	
"6581388"   "6587343"	
"6588498"   "6591625"	

		"6600220"   "6601643"   "6606251"   "6609560"   "6632655"   "6632719"   "6651735"   "6729383"   "6743664"   "6775996"). PN.				
S36	481	spray adj2 cooling and (porous or pore)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 15:27
S37	99	spray adj2 cooling and (porous or pore) same (vapor\$5 or evapor\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 16:48
S38	38	("2643282"   "2849523"   "2858355"   "2875263"   "4141224"   "4290274"   "4352392"   "4490728"   "4500895"   "4559789"   "4576012"   "4683481"   "4685308"   "4794410"   "5212975"   "5220804"   "5247426"   "5278584"   "5434606"   "5718117"   "5724824"   "5731542"   "5768103"   "5797274"   "5907473"   "5924198"   "5943211"   "5992159"   "6108201"   "6182742"   "6205799"   "6484521"   "6550263"   "6612120"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 17:34
S39	0	porous adj2 (heatsink or heat adj sink) same spray \$3 near3 cool\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 17:51
S40	2	porous adj2 (heatsink or heat adj sink) same spray \$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 17:51
S41	2	porous adj2 (heatsink or heat adj sink) and spray\$3 near3 cool\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 17:52
S42	5	porous near4 (heatsink or heat adj sink) and spray\$3 near3 cool\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/24 17:53
S43	1	"4056949".PN.	USPAT; USOCR	OR	OFF	2008/03/24 18:27
S44	2	"6994151".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 19:19

S45	1	solid adj2 foam same spray \$3 with cooling	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2008/03/24 20:05
S46	0	solid adj2 foam with heat adj sink	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2008/03/24 20:05
S47	392	foam with heat adj sink	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2008/03/24 20:05
S48	667	(metal adj foam or graphite or porous adj (Silicon Aluminum)) with (heatsink or heat adj sink)	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2008/03/24 20:09
S49	103	(metal adj foam or graphite or porous adj (Silicon Aluminum)) with (heatsink or heat adj sink) and spray \$3	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2008/03/24 20:09

3/25/08 9:53:38 PM

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